

Internal Business Process

Objective: Minimize Impact of Aging Plan

Initiative: Evaluate Pulverizers for Increased Interval Between Overhaul Using Ceramic Components

Magotteaux Xwin composite roll wheel tires and bowl segments were purchased and installed in the Unit 1 B pulverizer in December 2007. These pulverizers processed 725,057 tons of coal during a run time of 12,759 hours. Profiles of the Xwin bowl segments and tires indicate the grinding elements have minimal amounts of wear and are far superior to the B & W and Alstom grinding elements used in other IPSC pulverizers.

IPSC currently pays \$92,589 for a set of B & W bowl segments and Alstom tires (\$35,604 per set of bowl segments and \$18,995 per tire in a set of three). This is for the tire only, not the entire roll wheel assembly. Magotteaux has offered their product as follows:

2 to 3 sets:	\$29,500/tire x 3	\$88,500
	\$31,000 grinding table	<u>31,000</u>
Total:	set of 3 Xwin tires and 12 table segments	\$119,500
4 or more sets:	\$28,350/tire x 3	\$85,050
	\$29,750 grinding table	<u>29,750</u>
Total:	set of 3 Xwin tires and 12 table segments	\$114,800

In all cases, Xwin bowl segments cost less per set than what IPSC was paying for B & W bowl segments. The tires are more costly than Alstom, but wear life appears to be far superior. The original purchase justification required that IPSC obtain at least twice the wear life of the bowl segments and tires now being used. Based on the current information, IPSC should meet or exceed this objective. IPSC will use the current inventory of ceramic grinding components before changing to the Xwin components.